MOUNTI

mPower Electronics
Making Powerful Senses

Fixed VOC detector MP81X



MP81X is a fixed optical ion detector that can work in extremely harsh environments. The patented sensor design and temperature control unit can ensure that it is not affected by condensation water and improve the reliability of detection in harsh environments. High stability and long life light source can greatly reduce customer maintenance and use costs; Bluetooth remote control and mobile phone App operation mode, no need to open the cover, easily improve the efficiency of on-site maintenance; The OLED display is still visible even under bright light, which greatly improves the response speed to on-site dangerous factors. A variety of data transmission methods, including on-site wireless transmission, can be widely used in petroleum, petrochemical, chemical, manufacturing and processing industries, VOC organized and unorganized emission detection, VOC control in semiconductor workshop and other industries.

Unmatched detection performance

- Patented anti-humidity sensor design
- Response speed T90 < 15s
- Temperature range from -40° to +60°
- Can reach ppb detection resolution
- The detection concentration range can be adjusted
- Built-in temperature control unit
- Accelerated ion flow to prevent concentration saturation

Friendly user interaction experience

- OLED display content is clearly visible, including gas Concentration/graph, detection gas type and unit, etc
- Optional Bluetooth remote control and mobile App for calibration

Quasi-maintenance work

- The built-in gas reservoir contains more than 450 kinds of gases
- 4-20mA, Modbus, wireless multiple data pass

Signal mode, 3 relays + sound and light alarm interface

Economical use cost

- Zero self-setting technology effectively reduces maintenance time
- Long life and high stability light source
- Sensors that are not corroded by UV lamps
- Long life built-in sampling pump
- Modular design, humanized connection mode
- Easy to clean sensor and light source
- Pump self-diagnosis function

MP81X specifications and instrument indicators

Configuration	10.6eV photoionization sensor *9.8eV photoionization sensor
Detection gas	Organic volatile compounds (VOC), such as benzene, toluene, aldehydes, ethers, esters, etc
Sampling mode	Pumping type; 250cc/ min
Protection class	IP66
Detection range, resolution and accuracy	MP812, 0.001-200ppm, ± 2%FS; MP815, 0.05-5000 PPM, ±5% FS The range can be adjusted
Working power supply	12-30VDC
Temperature and humidity	-40℃~+60℃; 0~100%RH (no condensation)
Power consumption	＜5W
Output signal	4-20mA three-wire system; 485/CAN bus; Wireless (optional)
Response time	T90＜15 s
Electrical interface	3/4″ NPT×2
Security authentication	IECEx：Ex d IIC T6 Gb（pending） China explosion-proof certification: Ex d IIC T6
Size	180mm×213mm×127mm（W×H×D）
Weight	1.5kg
Shell material	Aluminium alloy
Wireless transmission distance	Greater than 400 meters
Warranty	The whole machine is guaranteed for 1 years

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Application field

- Petroleum, petrochemical refining
- Chemical industry, chemical industry
- Manufacturing, processing industry
- Paper making, wastewater treatment
- Pharmaceutical, solvent recovery
- Industrial paints and coatings
- Oil depot, oil storage
- Semiconductor, workshop VOC control
- IAQ, outdoor air quality
- Rapid real-time detection of VOC emissions

Optional accessories

- Android explosion-proof phone
- Sound and light alarm
- 10ppm isobutene standard gas
- 100ppm isobutene standard gas
- Constant flow valve
- Filter Kit